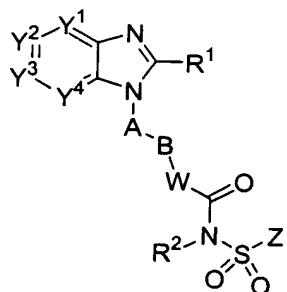


CLAIMS

1. A compound of the following formula:



(1)

5 or the pharmaceutically acceptable salts thereof, wherein
 γ_1 , γ_2 , γ_3 and γ_4 are independently selected from N, CH or C(L);
 R^1 is H, C₁₋₈ alkyl, C₂₋₈ alkenyl, C₂₋₈ alkynyl, C₃₋₇ cycloalkyl, C₁₋₈ alkoxy, halo-substituted C₁₋₈ alkoxy, C₁₋₈ alkyl-S(O)m-, Q¹-, pyrrolidinyl, piperidyl, oxopyrrolidinyl, oxopiperidyl, amino, mono- or di-(C₁₋₈ alkyl)amino, C₁₋₄alkyl-C(=O)-N(R³)- or C₁₋₄alkyl-S(O)m-N(R³)-, wherein said C₁₋₈ alkyl, C₂₋₈ alkenyl and C₂₋₈ alkynyl are optionally substituted with halo, C₁₋₃ alkyl, hydroxy, oxo, C₁₋₄ alkoxy-, C₁₋₄ alkyl-S(O)m-, C₃₋₇ cycloalkyl-, cyano, indanyl, 1,2,3,4-tetrahydronaphthyl, 1,2-dihydronaphthyl, pyrrolidinyl, piperidyl, oxopyrrolidinyl, oxopiperidyl, Q¹-, Q¹-C(=O)-, Q¹-O-, Q¹-S(O)m-, Q¹-C₁₋₄alkyl-O-, Q¹-C₁₋₄alkyl-S(O)m-, Q¹-C₁₋₄alkyl-C(O)-N(R³)-, Q¹-C₁₋₄alkyl-N(R³)- or C₁₋₄alkyl-C(O)-N(R³)-;

10 15 Q¹ is a 5-12 membered monocyclic or bicyclic aromatic ring optionally containing up to 4 heteroatoms selected from O, N and S, and is optionally substituted with halo, C₁₋₄ alkyl, halo-substituted C₁₋₄ alkyl, hydroxy, C₁₋₄ alkoxy, halo-substituted C₁₋₄ alkoxy, C₁₋₄ alkylthio, nitro, amino, mono- or di-(C₁₋₄ alkyl)amino, cyano, HO-C₁₋₄ alkyl, C₁₋₄ alkoxy-C₁₋₄alkyl, C₁₋₄ alkylsulfonyl, aminosulfonyl, C₁₋₄alkylC(=O)-, HO(O=)C-, C₁₋₄alkyl-O(O=)C-;

20 25 R³N(R⁴)C(=O)-, C₁₋₄ alkylsulfonylamino, C₃₋₇ cycloalkyl, R³C(=O)N(R⁴)- or NH₂(HN=)C-; A is a 5-6 membered monocyclic aromatic ring optionally containing up to 3 heteroatoms selected from O, N and S, wherein said 5-6 membered monocyclic aromatic ring is optionally substituted with up to 3 substituents selected from halo, C₁₋₄ alkyl, halo-substituted C₁₋₄ alkyl, hydroxy, C₁₋₄ alkoxy, halo-substituted C₁₋₄ alkoxy, C₁₋₄alkylthio, nitro, amino, mono- or di-(C₁₋₄ alkyl)amino, cyano, HO-C₁₋₄ alkyl, C₁₋₄ alkoxy-C₁₋₄alkyl, C₁₋₄ alkylsulfonyl, aminosulfonyl, acetyl, R³N(R⁴)C(=O)-, HO(O=)C-, C₁₋₄alkyl-O(O=)C-, C₁₋₄ alkylsulfonylamino, C₃₋₇ cycloalkyl, R³C(=O)N(R⁴)- and NH₂(HN=)C-;

卷之三

B is halo-substituted C₁₋₆ alkylene, C₃₋₇ cycloalkylene, C₂₋₆ alkenylene, C₂₋₆ alkynylene, -O-C₁₋₅ alkylene, C₁₋₂ alkylene-O-C₁₋₂ alkylene or C₁₋₆ alkylene optionally substituted with an oxo group or C₁₋₃ alkyl;

W is NH, N-C₁₋₄ alkyl, O, S, N-OR⁵ or a covalent bond ;

5 R² is H, C₁₋₄ alkyl, OH or C₁₋₄ alkoxy;

Z is a 5-12 membered monocyclic or bicyclic aromatic ring optionally containing up to 3 heteroatoms selected from O, N and S, wherein said 5-12 membered monocyclic or bicyclic aromatic ring is optionally substituted with halo, C₁₋₄ alkyl, halo-substituted C₁₋₄ alkyl, C₁₋₄ alkenyl, C₁₋₄ alkynyl, hydroxy, C₁₋₄ alkoxy, halo-substituted C₁₋₄ alkoxy, C₁₋₄ alkylthio, nitro,

10 amino, mono- or di-(C₁₋₄ alkyl)amino, cyano, HO-C₁₋₄ alkyl, C₁₋₄ alkoxy-C₁₋₄ alkyl, C₁₋₄ alkylsulfonyl, aminosulfonyl, C₁₋₄ alkylC(=O)-, R³C(=O)N(R⁴)-, HO(O=)C-, C₁₋₄ alkyl-O(O=)C-, C₁₋₄ alkylsulfonylamino, C₃₋₇ cycloalkyl, NH₂(HN=)C-, Q²-S(O)m-, Q²-O-, Q²-N(R³)- or Q²-;

L is halo, C₁₋₄ alkyl, halo-substituted C₁₋₄ alkyl, hydroxy, C₁₋₄ alkoxy, halo-substituted C₁₋₄

15 alkoxy, C₁₋₄ alkylthio, nitro, amino, mono- or di-(C₁₋₄ alkyl)amino, cyano, HO-C₁₋₄ alkyl, C₁₋₄ alkoxy-C₁₋₄ alkyl, C₁₋₄ alkylsulfonyl, aminosulfonyl, C₁₋₄ alkylC(=O)-, HO(O=)C-, C₁₋₄ alkyl-O(O=)C-, C₁₋₄ alkylsulfonylamino, C₃₋₇ cycloalkyl, R³C(=O)N(R⁴)-, NH₂(HN=)C-, R³N(R⁴)C(=O)-, R³N(R⁴)S(O)m-, Q²-, Q²-C(=O)-, Q²-O-, Q²-C₁₋₄ alkyl-O-, or two adjacent

20 L groups are optionally joined together to form an alkylene chain having 3 or 4 members in

which one or two (non-adjacent) carbon atoms are optionally replaced by oxygen atoms; m is 0, 1 or 2;

R³ and R⁴ are independently selected from H and C₁₋₄ alkyl ;

R⁵ is H, C₁₋₄ alkyl, C₁₋₄ alkyl-(O=)C- or C₁₋₄ alkyl-O-(O=)C- ; and

Q² is a 5-12 membered monocyclic or bicyclic aromatic ring, or a 5-12 membered tricyclic ring

25 optionally containing up to 3 heteroatoms selected from O, N and S, wherein said 5-12 membered monocyclic or bicyclic aromatic ring is optionally substituted with halo, C₁₋₄ alkyl, halo-substituted C₁₋₄ alkyl, C₁₋₄ alkenyl, C₁₋₄ alkynyl, hydroxy, C₁₋₄ alkoxy, halo-substituted C₁₋₄ alkoxy, C₁₋₄ alkylthio, nitro, amino, mono- or di-(C₁₋₄ alkyl)amino, cyano, HO-C₁₋₄ alkyl, C₁₋₄ alkoxy-C₁₋₄ alkyl, C₁₋₄ alkylsulfonyl, aminosulfonyl, C₁₋₄ alkyl-(O=)C-, R³(R⁴)C(=O)N-, HO(O=)C-, C₁₋₄ alkyl-O(O=)C-, C₁₋₄ alkylsulfonylamino, C₃₋₇ cycloalkyl,

30 C₁₋₄ alkyl-C(=O)NH- or NH₂(HN=)C-.

2. A compound according to Claim 1, wherein

Y₁, Y₂, Y₃, and Y₄ are independently selected from N, CH and C(L);
R¹ is H, C₁₋₈ alkyl, C₂₋₈ alkenyl, C₂₋₈ alkynyl, C₃₋₇ cycloalkyl, C₁₋₈ alkoxy, halo-substituted C₁₋₈ alkoxy, C₁₋₈ alkyl-S(O)m-, Q¹-, pyrrolidinyl, piperidyl, oxopyrrolidinyl, oxopiperidyl, amino, mono- or di-(C₁₋₈ alkyl)amino, C₁₋₄alkyl-C(=O)-N(R³)- or C₁₋₄alkyl-S(O)m-N(R³)-,
5 wherein said C₁₋₈ alkyl, C₂₋₈ alkenyl and C₂₋₈ alkynyl are optionally substituted with halo, C₁₋₃ alkyl, hydroxy, oxo, C₁₋₄ alkoxy-, C₁₋₄ alkyl-S(O)m-, C₃₋₇ cycloalkyl-, cyano, indanyl, 1,2,3,4-tetrahydronaphthyl, 1,2-dihydronaphthyl, pyrrolidinyl, piperidyl, oxopyrrolidinyl, oxopiperidyl, Q¹-, Q¹-C(=O)-, Q¹-O-, Q¹-S(O)m-, Q¹-C₁₋₄ alkyl-O-, Q¹-C₁₋₄ alkyl-S(O)m-, Q¹-C₁₋₄alkyl-C(=O)-N(R³)-, or C₁₋₄alkyl-C(=O)-N(R³)-;

10 Q¹ is a 5-12 membered monocyclic or bicyclic aromatic ring optionally containing up to 4 heteroatoms selected from O, N and S, and is optionally substituted with halo, C₁₋₄ alkyl, halo-substituted C₁₋₄ alkyl, hydroxy, C₁₋₄ alkoxy, halo-substituted C₁₋₄ alkoxy, C₁₋₄ alkylthio, nitro, amino, mono- or di-(C₁₋₄ alkyl)amino, cyano, HO-C₁₋₄ alkyl, C₁₋₄ alkoxy-C₁₋₄alkyl, C₁₋₄ alkylsulfonyl, aminosulfonyl, C₁₋₄ alkylC(=O)-, HO(O=)C-, C₁₋₄ alkyl-O(O)C-,
15 R³N(R⁴)C(=O)-, C₁₋₄ alkylsulfonylamino, C₃₋₇ cycloalkyl, R³C(=O)N(R⁴)- or NH₂(HN=)C-; A is a 5-6 membered monocyclic aromatic ring optionally containing up to 2 heteroatoms selected from O, N, and S, wherein said 5-6 membered monocyclic aromatic ring is optionally substituted with up to 2 substituents selected from halo, C₁₋₄ alkyl, halo-substituted C₁₋₄ alkyl, hydroxy, C₁₋₄ alkoxy and halo-substituted C₁₋₄ alkoxy;

20 B is C₃₋₇ cycloalkylene or C₁₋₆ alkylene optionally substituted with an oxo group or C₁₋₃ alkyl; W is NH, N-C₁₋₄ alkyl, O or N-OH;
R² is H or C₁₋₄ alkyl;
Z is a 5-12 membered monocyclic or bicyclic aromatic ring optionally containing up to 3 heteroatoms selected from, N and S, wherein said 5-12 membered monocyclic or bicyclic
25 aromatic ring is optionally substituted with halo, C₁₋₄ alkyl, halo-substituted C₁₋₄ alkyl, C₁₋₄ alkenyl, hydroxy, C₁₋₄ alkoxy, nitro, amino, cyano, HO-C₁₋₄ alkyl, C₁₋₄ alkylsulfonyl, aminosulfonyl, C₁₋₄ alkylC(=O)-, R³C(=O)N(R⁴)-, HO(O=)C-, C₁₋₄ alkyl-O(O=)C-, C₁₋₄ alkylsulfonylamino, C₁₋₄ alkyl-C(=O)NH-, Q²-S(O)m-, Q²-O-, Q²-N(R³)- or Q²-;
L is halo, C₁₋₄ alkyl, halo-substituted C₁₋₄ alkyl, hydroxy, C₁₋₄ alkoxy, mono- or di-(C₁₋₄
30 alkyl)amino, halo-substituted C₁₋₄ alkoxy, cyano, HO-C₁₋₄ alkyl, C₁₋₄ alkoxy-C₁₋₄ alkyl, C₁₋₄ alkylsulfonyl, aminosulfonyl, C₁₋₄ alkylC(=O)-, HO(O=)C-, C₁₋₄ alkyl-O(O=)C-, C₁₋₄

alkylsulfonylamino, C₃₋₇ cycloalkyl, R³C(=O)N(R⁴)-, R³N(R⁴)C(=O)-, R³N(R⁴)S(O)m-, Q²-, Q²-C(=O)-, Q²-O-, Q²-C₁₋₄alkyl-O-, or two adjacent L groups are optionally joined together to form an alkylene chain having 3 or 4 members in which one or two (non-adjacent) carbon atoms are optionally replaced by oxygen atoms;

5 m is 0 or 2;

R³ and R⁴ are independently selected from H and C₁₋₄ alkyl; and

Q² is a 5-12 membered monocyclic or bicyclic aromatic ring, or a 8-12 membered tricyclic ring optionally containing up to 3 heteroatoms selected from O, N and S, wherein said 5-12 membered monocyclic or bicyclic aromatic ring is optionally substituted with halo, C₁₋₄ alkyl,

10 halo-substituted C₁₋₄ alkyl, C₁₋₄ alkenyl, C₁₋₄ alkynyl, hydroxy, C₁₋₄ alkoxy, halo-substituted C₁₋₄ alkoxy, C₁₋₄ alkylthio, mono- or di-(C₁₋₄ alkyl)amino, cyano, HO-C₁₋₄ alkyl, C₁₋₄ alkoxy-C₁₋₄ alkyl, C₁₋₄ alkylsulfonyl, aminosulfonyl, C₁₋₄ alkyl-(O=)C-, R³(R⁴)C(=O)N-, HO(O=)C-, C₁₋₄ alkyl-O(O=)C-, C₁₋₄ alkylsulfonylamino, C₃₋₇ cycloalkyl or C₁₋₄ alkyl-C(=O)NH-.

15 3. A compound according to Claim 2, wherein

Y¹, Y², Y³, and Y⁴ are independently selected from N, CH and C(L);

R¹ is H, C₁₋₈ alkyl, C₂₋₈ alkenyl, C₂₋₈ alkynyl, C₃₋₇ cycloalkyl, Q¹-, pyrrolidinyl, piperidyl, oxopyrrolidinyl, oxopiperidyl, amino, mono- or di-(C₁₋₈ alkyl)amino, wherein said C₁₋₈ alkyl is optionally substituted with halo, C¹⁻³ alkyl, hydroxy, oxo, C₁₋₄ alkoxy-, C₁₋₄ alkyl-S(O)m-, C₃₋₇ cycloalkyl-, cyano, indanyl, pyrrolidinyl, piperidyl, oxopyrrolidinyl, oxopiperidyl, Q¹-, Q¹-C(O)-, Q¹-O-, Q¹-S-, Q¹-C₁₋₄ alkyl-O-, or C₁₋₄alkyl-C(O)-N(R³);

Q¹ is a 5-12 membered monocyclic aromatic ring optionally containing up to 4 heteroatoms selected from N and S, and is optionally substituted with halo, C₁₋₄ alkyl, C₁₋₄ alkylsulfonyl and C₁₋₄ alkylC(=O)-;

20 25 A is 5-6 membered monocyclic aromatic ring optionally substituted with halo, C₁₋₄ alkyl or C₁₋₄ alkoxy;

B is C₃₋₇ cycloalkylene or C₁₋₆ alkylene optionally substituted with an oxo group or C₁₋₃ alkyl;

W is NH, N-C₁₋₄ alkyl, O or N-OH;

R² is H or C₁₋₄ alkyl;

30 Z is 5-12 membered monocyclic or bicyclic aromatic ring optionally containing up to 3 heteroatoms selected from, N and S, wherein said 5-12 membered monocyclic or bicyclic aromatic ring is optionally substituted with halo, C₁₋₄ alkyl, halo-substituted C₁₋₄ alkyl, C₁₋₄

alkenyl, C₁₋₄ alkoxy, nitro, amino, cyano, R³C(=O)N(R⁴)-, C₁₋₄ alkyl-O(O=)C-, Q²-S(O)m-, Q²-O-, Q²-N(R³)- or Q²-;

L is halo, C₁₋₄ alkyl, halo-substituted C₁₋₄ alkyl, hydroxy, C₁₋₄ alkoxy, halo-substituted C₁₋₄ alkoxy, mono- or di-(C₁₋₄ alkyl)amino, cyano, HO-C₁₋₄ alkyl, C₁₋₄ alkylsulfonyl, C₁₋₄ aminosulfonyl, C₁₋₄ alkylC(=O)-, HO(O=)C-, C₁₋₄ alkyl-O(O=)C-, C₁₋₄ alkylsulfonylamino, C₃₋₇ cycloalkyl, R³C(=O)N(R⁴)-, R³N(R⁴)C(=O)-, R³N(R⁴)S(O)m-, Q²-, Q²-C(=O)-, Q²-O-, Q²-C₁₋₄alkyl-O-, or two adjacent L groups are optionally joined together to form an alkylene chain having 3 or 4 members in which one or two (non-adjacent) carbon atoms are optionally replaced by oxygen atoms;

5 10 m is 0 or 2;

R³ and R⁴ are independently selected from H and C₁₋₄ alkyl; and

Q² is a 5 or 6 membered monocyclic aromatic ring, or a 8-12 membered tricyclic ring containing up to 3 heteroatoms selected from N and S, wherein said 5 or 6 membered monocyclic aromatic ring is optionally substituted with halo.

15 15 4. A compound according to Claim 3, wherein

Y¹, Y², Y³ and Y⁴ are independently selected from N, CH and C(L);

R¹ is H, C₁₋₈ alkyl, C₂₋₈ alkenyl, C₂₋₈ alkynyl or C₃₋₇ cycloalkyl, wherein said C₁₋₈ alkyl is optionally substituted with halo, C₁₋₃ alkyl, hydroxy, oxo, C₁₋₄ alkoxy-, C₁₋₄ alkyl-S(O)m-, C₃₋₇ cycloalkyl-, cyano, indanyl, pyrrolidinyl, piperidyl, oxopyrrolidinyl, oxopiperidyl, Q¹-, Q¹-C(=O)-, Q¹-O-, Q¹-S-, Q¹-C₁₋₄ alkyl-O-, or C₁₋₄alkyl-C(O)-N(R³)-;

20 20 Q¹ is a 5 or 6 membered monocyclic aromatic ring optionally containing up to 4 heteroatoms selected from N and S;

A is 5-6 membered monocyclic aromatic ring system optionally substituted with halo or C₁₋₄ alkyl;

25 25 B is or C₃₋₇ cycloalkylene or C₁₋₆ alkylene optionally substituted with an oxo group or C₁₋₃ alkyl;

W is NH, N-C₁₋₄ alkyl, O or N-OH;

R² is H or C₁₋₄ alkyl;

30 30 Z is 5-12 membered monocyclic or bicyclic aromatic ring optionally containing up to 3 heteroatoms selected from N and S, wherein said 5-12 membered monocyclic or bicyclic aromatic ring is optionally substituted with halo, C₁₋₄ alkyl, halo-substituted C₁₋₄ alkyl, C₁₋₄ alkenyl, C₁₋₄ alkoxy, nitro, amino, cyano, R³C(=O)N(R⁴)-, C₁₋₄ alkyl-O(O=)C-, Q²-S(O)m-,

Q^2 -O-, Q^2 -N(R^3)- or Q^2 -;

L is halo, C₁₋₄ alkyl, halo-substituted C₁₋₄ alkyl, hydroxy, C₁₋₄ alkoxy, halo-substituted C₁₋₄ alkoxy, cyano, HO-C₁₋₄ alkyl, C₁₋₄ alkylsulfonyl, aminosulfonyl, C₁₋₄ alkylC(=O), HO(O=)C-, C₁₋₄ alkyl-O(O=)C-, C₁₋₄ alkylsulfonylamino, C₃₋₇ cycloalkyl, R^3 C(=O)NR⁴-, R^3 N(R^4)C(=O)-,

5 , R^3 N(R^4)S(O)m-, Q^2 -, Q^2 -C(=O)-, Q^2 -O-, Q^2 -C₁₋₄alkyl-O-, or two adjacent L groups are optionally joined together to form an alkylene chain having 3 or 4 members in which one or two (non-adjacent) carbon atoms are optionally replaced by oxygen atoms; m is 0 or 2;

R^3 and R^4 are independently selected from H and C₁₋₄ alkyl; and

10 Q^2 is 5 or 6 membered monocyclic aromatic ring or a 8-12 membered tricyclic ring optionally containing 1 sulfur atom wherein said 5 or 6 membered monocyclic aromatic ring is optionally substituted with halo.

5. A compound according to Claim 4, wherein

Y^1 , Y^2 , Y^3 and Y^4 are independently selected from N, CH and C(L);

15 R^1 is C₁₋₅ alkyl or C₃₋₇ cycloalkyl, wherein said C₁₋₅ alkyl is optionally substituted with C₁₋₃ alkyl, hydroxy, oxo, pyrrolidinyl, piperidyl, oxopyrrolidinyl, oxopiperidyl, Q^1 -, or C₁₋₄alkyl-C(O)-N(H)-;

Q^1 is 5-12 membered monocyclic aromatic ring system optionally containing up to 2 heteroatoms selected from N and S,

20 A is 5-6 membered monocyclic aromatic ring system;

B is C₁₋₃ alkylene optionally substituted with C₁₋₃ alkyl;

W is NH, N-C₁₋₂ alkyl or O;

R^2 is H;

25 Z is 5-12 membered monocyclic or bicyclic aromatic ring optionally containing up to 3 heteroatoms selected from N and S, wherein said 5-12 membered monocyclic aromatic ring is optionally substituted with halo, C₁₋₄ alkyl, nitro, R^3 C(=O)N(R^4)- or Q^2 -;

L is halo, C₁₋₄ alkyl, halo-substituted C₁₋₄ alkyl, hydroxy, C₁₋₄ alkoxy, halo-substituted C₁₋₄ alkoxy, cyano, HO-C₁₋₄ alkyl, acetyl, R^3 N(R^4)C(=O)-, R^3 N(R^4)S(O)m-, Q^2 -, Q^2 -C(=O)-, or two adjacent L groups are joined together to form a methylenedioxy group;

30 R^3 and R^4 are independently selected from H and C₁₋₄ alkyl; and

Q^2 is 5 or 6 membered monocyclic aromatic ring system.

6. A compound according to Claim 5, wherein

Y^1 , Y^2 , Y^3 and Y^4 are independently selected from N, CH and C-L;

R^1 is C₁₋₅ alkyl optionally substituted with C₁₋₃ alkyl, hydroxy, oxo, 5 or 6 membered monocyclic aromatic ring, wherein said 5 or 6 membered monocyclic aromatic ring is containing 1 or 2 heteroatoms selected from N and S, or C₁₋₄alkyl-C(O)-N(R³)-;

A is phenyl;

5 B is C₁₋₂ alkylene optionally substituted with methyl:

W is NH, N-CH₃ or O;

\mathbb{R}^2 is H :

Z is 5-10 membered monocyclic or bicyclic aromatic ring optionally containing up to 3 heteroatoms selected from N and S, wherein acid 5-10

10 optionally substituted with chloro, bromo, methyl, nitro, $\text{CH}_3\text{C}(=\text{O})\text{NH}-$, $\text{tBuC}(=\text{O})\text{NH}-$ or phenyl; and

L is chloro, methyl, trifluoromethyl, hydroxy, methoxy, cyano, acetyl, $-\text{C}(=\text{O})\text{NH}_2$, trifluoromethoxy, methanesulfonyl, or 1-hydroxy-1-methyl-ethyl, or two adjacent L groups are joined together to form a methylenedioxy group.

15 7. A compound according to Claim 6, wherein

$\gamma_1, \gamma_2, \gamma_3$ and γ_4 are independently selected from $N(0, \sigma^2)$.

R^1 is methyl, ethyl, n-propyl, isopropyl, n-butyl, isobutyl, neopentyl, thiazolylethyl methylamino, dimethylamino, pyrrolidinyl, and the like.

Aliphatic

20 B is ethylene or propene

W is NH, N-CH₃, or O.

11

Z is phenyl, pyrazolyl, thiazolyl, thiadiazolyl, thienyl, naphthyl or benzothienyl, said phenyl, pyrazolyl, thiazolyl, thiadiazolyl, thienyl, naphthyl or benzothienyl.

25 pyrazolyl, triazolyl, triadiazolyl and thiienyl being optionally substituted with one to three substituents independently selected from chloro, bromo, methyl, acetylamino, pivaloylamino, nitro and phenyl; and

L is chloro, methyl, trifluoromethyl, hydroxy, methoxy, cyano, acetyl, $-\text{C}(=\text{O})\text{NH}_2$, trifluoromethoxy, methanesulfonyl, or 1-hydroxy-1-methyl-ethyl, or two adjacent L groups are joined together to form a methylenedioxy group.

30 8. A compound according to Claim 7, wherein

Y^1, Y^2, Y^3 and Y^4 are selected from the group consisting of

a) Y^1 and Y^3 are $C(1)$, Y^2 is CH and Y^4 is Na .

b) x^1 is CH , x^2 and x^3 are CH_2 , and x^4 is CH_3 .

c) x_1, x_2 and x_3 are $\mathcal{O}(L)$ and y

c) Y^1 , Y^2 and Y^3 are $C(L)$ and Y^4 is N ;
d) Y^1 and Y^3 are $C(L)$, Y^2 is N and Y^4 is CH ;
e) Y^1 is $C(L)$ and Y^2 , Y^3 and Y^4 are CH ;
f) Y^1 , Y^3 and Y^4 are CH , and Y^2 is $C(L)$;
5 g) Y^1 , Y^2 and Y^3 are CH , and Y^4 is $C(L)$;
h) Y^1 and Y^2 are $C(L)$, and Y^3 and Y^4 are CH ;
i) Y^1 and Y^3 are $C(L)$, and Y^2 and Y^4 are CH ; and
j) Y^1 and Y^4 are CH , and Y^2 and Y^3 are $C(L)$;

10 R^1 is methyl, ethyl, n-propyl, isopropyl, n-butyl, isobutyl, neopentyl, thiazolylethyl methylamino, dimethylamino, pyrrolidinyl, pyridyl, or 1-acetylamino-1-methylethyl; A is phenyl;
B is ethylene or propylene;
W is NH , $N-CH_3$ or O ;
 R^2 is H ;

15 15. Z is phenyl, pyrazolyl, thiazolyl, thiadiazolyl, thienyl, naphthyl or benzothienyl, said phenyl, pyrazolyl, thiazolyl, thiadiazolyl and thienyl being optionally substituted with one to three substituents independently selected from chloro, bromo, methyl, acetyl, amino, pivaloylamino, nitro and phenyl; and
L is chloro, methyl, trifluoromethyl, hydroxy, methoxy, cyano, acetyl, $-C(=O)NH_2$,
20 trifluoromethoxy, methanesulfonyl, or 1-hydroxy-1-methyl-ethyl, or two adjacent L groups are joined together to form a methylenedioxy group.

10. A compound according to Claim 1 selected from
3-(4-{2-[{[(5-chloro-1,3-dimethyl-1H-pyrazol-4-yl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-
-2-ethyl-5,7-dimethyl-3H-imidazo[4,5-b]pyridine;

25 3-(4-{2-[{[(2,4-dimethyl-1,3-thiazol-5-yl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-2-ethyl-
5,7-dimethyl-3H-imidazo[4,5-b]pyridine;
N-[5-{[(2-[4-(2-ethyl-5,7-dimethyl-3H-imidazo[4,5-b]pyridin-3-yl)phenyl]ethyl]amino}carbonyl]amino}sulfonyl)-1,3,4-thiadiazol-2-yl]acetamide;

30 6-ethyl-5-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-5H-[1,3]dioxolo[4,5-f]benzimidazole;
6-chloro-5-cyano-2-ethyl-1-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-1H-benzimidazole;

2-ethyl-5,7-dimethyl-3-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-3H-imidazo[4,5-b]pyridine;

35 2-ethyl-5,7-dimethyl-3-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}

FOIETOT-42922660

propyl}phenyl)-3*H*-imidazo[4,5-*b*]pyridine;
2-[4-(2-ethyl-5,7-dimethyl-3*H*-imidazo[4,5-*b*]pyridin-3-yl)phenyl]-1-methylethyl (4-methylphenyl)sulfonylcarbamate;
5,7-dimethyl-3-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-2-propyl-
5 3*H*-imidazo[4,5-*b*]pyridine;
2-isopropyl-5,7-dimethyl-3-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-3*H*-imidazo[4,5-*b*]pyridine;
2-butyl-5,7-dimethyl-3-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-3*H*-imidazo[4,5-*b*]pyridine;
10 2-isobutyl-5,7-dimethyl-3-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-3*H*-imidazo[4,5-*b*]pyridine;
5,7-dimethyl-3-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-2-neopentyl-3*H*-imidazo[4,5-*b*]pyridine;
15 5,7-dimethyl-3-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-2-[2-(1,3-thiazol-2-yl)ethyl]-3*H*-imidazo[4,5-*b*]pyridine;
3-{4-[2-({[(4-biphenylsulfonyl)amino}carbonyl]amino}ethyl}phenyl]-2-ethyl-5,7-dimethyl-3*H*-imidazo[4,5-*b*]pyridine;
2-ethyl-5,7-dimethyl-3-{4-[2-({[(1-naphthylsulfonyl)amino}carbonyl]amino}ethyl}phenyl)-3*H*-imidazo[4,5-*b*]pyridine;
20 2-ethyl-5,7-dimethyl-3-{4-[2-({[(2-naphthylsulfonyl)amino}carbonyl]amino}ethyl}phenyl)-3*H*-imidazo[4,5-*b*]pyridine;
2-ethyl-5,7-dimethyl-3-(4-{2-[{[(2-thienyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-3*H*-imidazo[4,5-*b*]pyridine;
25 3-(4-{2-[{[(5-chloro-2-thienyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-2-ethyl-5,7-dimethyl-3*H*-imidazo[4,5-*b*]pyridine;
3-(4-{2-[{[(4,5-dichloro-2-thienyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-2-ethyl-5,7-dimethyl-3*H*-imidazo[4,5-*b*]pyridine;
3-{4-[2-({[(1-benzothien-2-ylsulfonyl)amino}carbonyl]amino}ethyl}phenyl]-2-ethyl-5,7-dimethyl-3*H*-imidazo[4,5-*b*]pyridine;
30 3-(4-{2-[{[(2-chlorophenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-2-ethyl-5,7-dimethyl-3*H*-imidazo[4,5-*b*]pyridine;
2-ethyl-5,6-dimethyl-3-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-3*H*-imidazo[4,5-*b*]pyridine;
35 5,6-dichloro-2-ethyl-3-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-3*H*-imidazo[4,5-*b*]pyridine;
5-chloro-2-ethyl-7-methyl-3-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-3*H*-imidazo[4,5-*b*]pyridine;

40074074-42922650

6-cyano-2-ethyl-5,7-dimethyl-3-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-3*H*-imidazo[4,5-*b*]pyridine;
2-ethyl-4,6-dimethyl-1-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-1*H*-imidazo[4,5-*c*]pyridine;
5 4-methyl-2-ethyl-3-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)benzimidazole;
7-chloro-2-ethyl-3-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)benzimidazole;
5-methoxy-2-ethyl-3-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)benzimidazole;
10 5-acetyl-2-ethyl-3-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)benzimidazole;
5-cyano-2-ethyl-1-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-1*H*-benzimidazole;
15 2-ethyl-5-hydroxy-1-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-1*H*-benzimidazole;
2-ethyl-4,5-dimethyl-1-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-1*H*-benzimidazole;
4,6-dimethyl-2-ethyl-3-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)benzimidazole;
20 5,6-dimethyl-1-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-1*H*-benzimidazole;
5,6-dichloro-2-ethyl-1-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-1*H*-benzimidazole;
25 2-[4-(5,6-dichloro-2-ethyl-1*H*-benzimidazol-1-yl)phenyl]ethyl-(4-methylphenyl)sulfonylcarbamate;
6-chloro-5-trifluoromethyl-1-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-1*H*-benzimidazole;
4-(6-chloro-2-ethyl-5-trifluoromethyl-1*H*-benzimidazol-1-yl)phenethyl-(4-methylphenyl)sulfonylcarbamate;
30 5-chloro-6-methyl-1-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-1*H*-benzimidazole;
6-chloro-2-ethyl-1-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-1*H*-benzimidazole-5-carboxamide;
35 2-ethyl-3-{4-[2-{[(3-[hydroxy(oxido)amino]phenyl}sulfonyl]amino}carbonyl]ethyl}phenyl}-5,7-dimethyl-3*H*-imidazo[4,5-*b*]pyridine;
3-(4-{2-[{[(4-chlorophenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-2-ethyl-5,7-dimethyl-

2029226560

3*H*-imidazo[4,5-*b*]pyridine;
n-[4-({{[({2-[4-(2-ethyl-5,7-dimethyl-3*H*-imidazo[4,5-*b*]pyridin-3-yl)phenyl]ethyl}amino)carbonyl]amino}sulfonyl)phenyl]-2,2-dimethylpropanamide;
3-(4-{2-[{[({2-chlorophenyl)sulfonyl}amino)carbonyl]amino}ethyl}phenyl)-2-ethyl-5,7-dimethyl-
5 3*H*-imidazo[4,5-*b*]pyridine;
3-(4-{2-[{[({3-chlorophenyl)sulfonyl}amino)carbonyl]amino}ethyl}phenyl)-2-ethyl-5,7-dimethyl-
3*H*-imidazo[4,5-*b*]pyridine;
3-(4-{2-[{[({5-chloro-2-thienyl)sulfonyl}amino)carbonyl]amino}ethyl}phenyl)-2-ethyl-5,7-
dimethyl-3*H*-imidazo[4,5-*b*]pyridine;
10 3-(4-{2-[{[({5-bromo-2-thienyl)sulfonyl}amino)carbonyl]amino}ethyl}phenyl)-2-ethyl-5,7-
dimethyl-3*H*-imidazo[4,5-*b*]pyridine;
3-(4-{2-[{[({2-bromophenyl)sulfonyl}amino)carbonyl]amino}ethyl}phenyl)-2-ethyl-5,7-dimethyl-
3*H*-imidazo[4,5-*b*]pyridine;
3-(4-{2-[{[({4-chloro-3-nitrophenyl)sulfonyl}amino)carbonyl]amino}ethyl}phenyl)-2-ethyl-5,7-
15 dimethyl-3*H*-imidazo[4,5-*b*]pyridine;
2-[4-(2-ethyl-4,6-dimethyl-1*H*-imidazo[4,5-*c*]pyridin-1-yl)phenyl]ethyl (4-
methylphenyl)sulfonylcarbamate;
2-{4-[5,7-dimethyl-2-(methylamino)-3*H*-imidazo[4,5-*b*]pyridin-3-yl]phenyl}ethyl (4-
methylphenyl)sulfonylcarbamate;
20 N-{{[2-(4-[5,7-dimethyl-2-(methylamino)-3*H*-imidazo[4,5-*b*]pyridin-3-
yl]phenyl]ethyl}amino}carbonyl}-4-methylbenzenesulfonamide;
N-{{[2-(4-[2-ethyl-5-(1-hydroxy-1-methylethyl)-1*H*-benzimidazol-1-
yl]phenyl]ethyl}amino}carbonyl}-4-methylbenzenesulfonamide;
2-ethyl-4,6-dimethyl-1-(4-{2-[{[({4-methylphenyl)sulfonyl}amino)carbonyl]amino}ethyl}phenyl)-
25 1*H*-benzimidazole-5-carboxamide;
2-{4-[6-chloro-2-ethyl-5-(trifluoromethyl)-1*H*-benzimidazol-1-yl]phenyl}ethyl (2-
chlorophenyl)sulfonylcarbamate;
2-{5-[6-chloro-2-ethyl-5-(trifluoromethyl)-1*H*-benzimidazol-1-yl]-2-pyridinyl}ethyl (4-
methylphenyl)sulfonylcarbamate;
30 2-{4-[6-chloro-2-ethyl-5-(trifluoromethyl)-1*H*-benzimidazol-1-yl]phenyl}ethyl (5-methyl-2-
pyridinyl)sulfonylcarbamate;
2-{4-[6-chloro-2-(1*H*-pyrazol-3-yl)-5-(trifluoromethyl)-1*H*-benzimidazol-1-yl]phenyl}ethyl (4-
methylphenyl)sulfonylcarbamate;
2-{4-[6-chloro-2-(4-pyridinyl)-5-(trifluoromethyl)-1*H*-benzimidazol-1-yl]phenyl}ethyl (4-
35 methylphenyl)sulfonylcarbamate;
2-{4-[5-(aminocarbonyl)-6-chloro-2-ethyl-1*H*-benzimidazol-1-yl]phenyl}ethyl (4-
methylphenyl)sulfonylcarbamate;

N-{[(2-{4-[6-chloro-2-ethyl-5-(methylsulfonyl)-1*H*-benzimidazol-1-yl]phenyl)ethyl]amino}carbonyl}-4-methylbenzenesulfonamide;
2-{4-[6-chloro-2-ethyl-5-(methylsulfonyl)-1*H*-benzimidazol-1-yl]phenyl}ethyl (4-methylphenyl)sulfonylcarbamate;

5 *N*-{[(2-[4-(2-ethyl-5,7-dimethyl-3*H*-imidazo[4,5-*b*]pyridin-3-yl)phenyl]ethyl]amino}carbonyl]-2-thiophenesulfonamide;
2-[4-(4,6-dimethyl-2-phenyl-1*H*-imidazo[4,5-*c*]pyridin-1-yl)phenyl]ethyl (4-methylphenyl)sulfonylcarbamate;
2-[4-(2-butyl-4,6-dimethyl-1*H*-imidazo[4,5-*c*]pyridin-1-yl)phenyl]ethyl (4-methylphenyl)sulfonylcarbamate;

10 2-{4-[6-chloro-2-ethyl-5-(trifluoromethyl)-1*H*-benzimidazol-1-yl]phenyl}ethyl (5-chloro-1,3-dimethyl-1*H*-pyrazol-4-yl)sulfonylcarbamate;
2-{4-[4,6-dimethyl-2-(3-phenylpropyl)-1*H*-imidazo[4,5-*c*]pyridin-1-yl]phenyl}ethyl (4-methylphenyl)sulfonylcarbamate;

15 15 2-{4-[6-chloro-2-(2-pyridinyl)-5-(trifluoromethyl)-1*H*-benzimidazol-1-yl]phenyl}ethyl (4-methylphenyl)sulfonylcarbamate;
(1*S*)-2-{4-[6-chloro-2-ethyl-5-(trifluoromethyl)-1*H*-benzimidazol-1-yl]phenyl}-1-methylethyl (4-methylphenyl)sulfonylcarbamate;
2-{6-[6-chloro-2-ethyl-5-(trifluoromethyl)-1*H*-benzimidazol-1-yl]-3-pyridinyl}ethyl (4-methylphenyl)sulfonylcarbamate;

20 20 *N*-{[(2-{4-[6-chloro-2-(1-hydroxy-1-methylethyl)-5-(trifluoromethyl)-1*H*-benzimidazol-1-yl]phenyl}ethyl]amino}carbonyl}-4-methylbenzenesulfonamide;
N-{[(2-{4-[5,7-dimethyl-2-(1*H*-pyrazol-3-yl)-3*H*-imidazo[4,5-*b*]pyridin-3-yl]phenyl}ethyl)amino}carbonyl]-4-methylbenzenesulfonamide;

25 25 2-{4-[2-(1,1-dimethylethyl)-4,6-dimethyl-1*H*-imidazo[4,5-*c*]pyridin-1-yl]phenyl}ethyl (4-methylphenyl)sulfonylcarbamate;
2-{4-[2-[1-(acetylamino)-1-methylethyl]-6-chloro-5-(trifluoromethyl)-1*H*-benzimidazol-1-yl]phenyl}ethyl (4-methylphenyl)sulfonylcarbamate;
6-chloro-2-ethyl-1-(4-{2-[methyl({[(4-methylphenyl)sulfonyl]amino}carbonyl)amino]ethyl}phenyl)-1*H*-benzimidazole-5-carboxamide; and salts thereof.

30 30 11. A compound according to Claim 1 selected from
6-ethyl-5-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl)phenyl)-5*H*-[1,3]dioxolo[4,5-*f*]benzimidazole;

35 35 6-chloro-5-cyano-2-ethyl-1-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl)phenyl)-1*H*-benzimidazole;
2-[4-(2-ethyl-5,7-dimethyl-3*H*-imidazo[4,5-*b*]pyridin-3-yl)phenyl]-1-methylethyl (4-

methylphenyl)sulfonylcarbamate;

5,7-dimethyl-3-(4-{2-[(4-methylphenyl)sulfonyl]amino}carbonyl)amino]ethyl}phenyl)-2-[2-(1,3-thiazol-2-yl)ethyl]-3*H*-imidazo[4,5-*b*]pyridine;

5 2-ethyl-5,7-dimethyl-3-(4-{2-[(2-thienylsulfonyl)amino]carbonyl}amino)ethyl}phenyl)-3*H*-imidazo[4,5-*b*]pyridine;

3-(4-{2-[(2-chlorophenyl)sulfonyl]amino}carbonyl)amino]ethyl}phenyl)-2-ethyl-5,7-dimethyl-3*H*-imidazo[4,5-*b*]pyridine;

2-ethyl-5,6-dimethyl-3-(4-{2-[(4-methylphenyl)sulfonyl]amino}carbonyl)amino]ethyl}phenyl)-3H-imidazo[4,5-b]pyridine;

10 5,6-dichloro-2-ethyl-3-(4-{2-[(4-methylphenyl)sulfonyl]amino}carbonyl)amino]ethyl}phenyl)-3H-imidazo[4,5-b]pyridine;

2-ethyl-4,6-dimethyl-1-(4-{2-[(4-methylphenyl)sulfonyl]amino}carbonyl)amino]ethyl}phenyl)-1*H*-imidazo[4,5-*c*]pyridine:

15 5-methoxy-2-ethyl-3-(4-{2-[(4-methylphenyl)sulfonyl]amino}carbonyl)amino]ethyl}phenyl)benzimidazole.

5-acetyl-2-ethyl-3-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)benzimidazole:

5-cyano-2-ethyl-1-{4-[2-[(4-methylphenyl)sulfonyl]amino]carbonyl}amino]ethyl}phenyl)-1*H*-benzimidazole:

20 2-ethyl-5-hydroxy-1-(4-{2-[{[(4-methylphenyl)sulfonyl]amino}carbonyl]amino}ethyl}phenyl)-1*H*-benzimidazole:

2-ethyl-4,5-dimethyl-1-(4-{2-[(4-methylphenyl)sulfonyl]amino}carbonyl)amino]ethyl}phenyl)-1*H*-benzimidazole:

25 4-(6-chloro-2-ethyl-5-trifluoromethyl-1*H*-benzimidazol-1-yl)phenethyl-(4-methylphenyl)sulfonylcarbamate;

6-chloro-2-ethyl-1-(4-[2-(((4-methylphenyl)sulfonyl)amino)carbonyl]amino]ethyl)phenyl)-1*H*-benzimidazole-5-carboxamide;

2-[4-(2-ethyl-4,6-dimethyl-1*H*-imidazo[4,5-*c*]pyridin-1-yl)phenyl]ethyl (4-methylphenyl)sulfonylcarbamate:

30 2-{4-[5,7-dimethyl-2-(methylamino)-3*H*-imidazo[4,5-*b*]pyridin-3-yl]phenyl}ethyl (4-methylphenyl)sulfonylcarbamato;

N-{[(2-{[4-[5,7-dimethyl-2-(methylamino)-3H-imidazo[4,5-*b*]pyridin-3-yl]phenyl}ethyl)amino]carbonyl}-4-methyl-N-phenylbenzylcarbamate,

3-ethyl-4,6-dimethyl-1-(4-methylbenzyl)phenylsulfonamide;

2-(3,5-dimethyl-4,5-dihydro-1H-1,2-dihydroimidazol-2-yl)-4-(4-((2-((4-methylphenyl)sulfonyl)amino)carbonyl)amino)ethyl}phenyl)-1*H*-benzimidazole-5-carboxamide;

2-{4-[6-chloro-2-ethyl-5-(trifluoromethyl)-1*H*-benzimidazol-1-yl]phenyl}ethyl (2-chlorophenyl)sulfonylcarbamate;
2-{5-[6-chloro-2-ethyl-5-(trifluoromethyl)-1*H*-benzimidazol-1-yl]-2-pyridinyl}ethyl (4-methylphenyl)sulfonylcarbamate;
5 2-{4-[6-chloro-2-ethyl-5-(trifluoromethyl)-1*H*-benzimidazol-1-yl]phenyl}ethyl (5-methyl-2-pyridinyl)sulfonylcarbamate;
2-{4-[6-chloro-2-(1*H*-pyrazol-3-yl)-5-(trifluoromethyl)-1*H*-benzimidazol-1-yl]phenyl}ethyl (4-methylphenyl)sulfonylcarbamate;
2-{4-[6-chloro-2-(4-pyridinyl)-5-(trifluoromethyl)-1*H*-benzimidazol-1-yl]phenyl}ethyl (4-methylphenyl)sulfonylcarbamate;
10 2-{4-[5-(aminocarbonyl)-6-chloro-2-ethyl-1*H*-benzimidazol-1-yl]phenyl}ethyl (4-methylphenyl)sulfonylcarbamate;
N-{[(2-{4-[6-chloro-2-ethyl-5-(methylsulfonyl)-1*H*-benzimidazol-1-yl]phenyl}ethyl)amino]carbonyl}-4-methylbenzenesulfonamide;
15 2-{4-[6-chloro-2-ethyl-5-(methylsulfonyl)-1*H*-benzimidazol-1-yl]phenyl}ethyl (4-methylphenyl)sulfonylcarbamate;
N-{[(2-[4-(2-ethyl-5,7-dimethyl-3*H*-imidazo[4,5-*b*]pyridin-3-yl)phenyl]ethyl)amino]carbonyl}-2-thiophenesulfonamide;
2-[4-(4,6-dimethyl-2-phenyl-1*H*-imidazo[4,5-*c*]pyridin-1-yl)phenyl]ethyl (4-methylphenyl)sulfonylcarbamate;
20 2-[4-(2-butyl-4,6-dimethyl-1*H*-imidazo[4,5-*c*]pyridin-1-yl)phenyl]ethyl (4-methylphenyl)sulfonylcarbamate;
2-{4-[6-chloro-2-ethyl-5-(trifluoromethyl)-1*H*-benzimidazol-1-yl]phenyl}ethyl (5-chloro-1,3-dimethyl-1*H*-pyrazol-4-yl)sulfonylcarbamate;
25 2-{4-[4,6-dimethyl-2-(3-phenylpropyl)-1*H*-imidazo[4,5-*c*]pyridin-1-yl]phenyl}ethyl (4-methylphenyl)sulfonylcarbamate;
2-{4-[6-chloro-2-(2-pyridinyl)-5-(trifluoromethyl)-1*H*-benzimidazol-1-yl]phenyl}ethyl (4-methylphenyl)sulfonylcarbamate;
30 (1*S*)-2-{4-[6-chloro-2-ethyl-5-(trifluoromethyl)-1*H*-benzimidazol-1-yl]phenyl}-1-methylethyl (4-methylphenyl)sulfonylcarbamate;
2-{6-[6-chloro-2-ethyl-5-(trifluoromethyl)-1*H*-benzimidazol-1-yl]-3-pyridinyl}ethyl (4-methylphenyl)sulfonylcarbamate;
N-{[(2-{4-[6-chloro-2-(1-hydroxy-1-methylethyl)-5-(trifluoromethyl)-1*H*-benzimidazol-1-yl]phenyl}ethyl)amino]carbonyl}-4-methylbenzenesulfonamide;
35 *N*-{[(2-{4-[5,7-dimethyl-2-(1*H*-pyrazol-3-yl)-3*H*-imidazo[4,5-*b*]pyridin-3-yl]phenyl}ethyl)amino]carbonyl}-4-methylbenzenesulfonamide;
2-{4-[2-(1,1-dimethylethyl)-4,6-dimethyl-1*H*-imidazo[4,5-*c*]pyridin-1-yl]phenyl}ethyl (4-

055252-10020

methylphenyl)sulfonylcarbamate;
2-{4-[2-[1-(acetylamino)-1-methylethyl]-6-chloro-5-(trifluoromethyl)-1H-benzimidazol-1-yl]phenyl}ethyl (4-methylphenyl)sulfonylcarbamate;
6-chloro-2-ethyl-1-(4-{2-[methyl({[(4-methylphenyl)sulfonyl]amino}carbonyl)amino]ethyl}phenyl)-1H-benzimidazole-5-carboxamide; and
5 salts thereof.

12. A pharmaceutical composition for the treatment of a disorder or condition mediated by prostaglandin in a mammal including a human, which comprises an effective amount of a compound of Claim 1, or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier.

10 13. A method for the treatment of a medical condition in which prostaglandins are implicated as pathogens, in a mammalian subject including a human, comprising administering to a mammal in need of such treatment an effective amount of a compound of Claim 1 and a pharmaceutically acceptable carrier.

14. A pharmaceutical formulation comprising a compound of Claim 1, a pharmaceutically acceptable carrier and, optionally, one or more other pharmacologically active ingredients.

15 15. A compound of the following formula:

20 (II)

20 or salts thereof

wherein Y¹, Y², Y³ and Y⁴ are independently selected from N, CH or C(L);
R¹ is H, C₁₋₈ alkyl, C₂₋₈ alkenyl, C₂₋₈ alkynyl, C₃₋₇ cycloalkyl, C₁₋₈ alkoxy, halo-substituted C₁₋₈ alkoxy, C₁₋₈ alkyl-S(O)m-, Q¹-, amino, mono- or di-(C₁₋₈ alkyl)amino, C₁₋₄alkyl-C(=O)-N(R³)- or C₁₋₄alkyl-S(O)m-N(R³)-, wherein said C₁₋₈ alkyl, C₂₋₈ alkenyl and C₂₋₈ alkynyl are optionally substituted with halo, C₁₋₃ alkyl, C₁₋₄ alkoxy-, C₁₋₄ alkyl-S(O)m-, C₃₋₇ cycloalkyl-, cyano, indanyl, 1,2,3,4-tetrahydronaphthyl, 1,2-dihydronaphthyl, Q¹-, Q¹-C(=O)-, Q¹-O-, Q¹-S(O)m-, Q¹-C₁₋₄alkyl-O-, Q¹-C₁₋₄alkyl-S(O)m-, Q¹-C₁₋₄alkyl-C(O)-N(R³)-, Q¹-C₁₋₄alkyl-N(R³)- or C₁₋₄alkyl-C(O)-N(R³)-;

25 30 Q¹ is a 5-12 membered monocyclic or bicyclic aromatic ring optionally containing up to 4 heteroatoms selected from O, N and S, and is optionally substituted with halo, C₁₋₄ alkyl,

halo-substituted C₁₋₄ alkyl, hydroxy, C₁₋₄ alkoxy, halo-substituted C₁₋₄ alkoxy, C₁₋₄ alkylthio, nitro, amino, mono- or di-(C₁₋₄ alkyl)amino, cyano, HO-C₁₋₄ alkyl, C₁₋₄ alkoxy-C₁₋₄ alkyl, C₁₋₄ alkylsulfonyl, aminosulfonyl, C₁₋₄ alkylC(=O)-, HO(O=)C-, C₁₋₄ alkyl-O(O=)C-, R³N(R⁴)C(=O)-, C₁₋₄ alkylsulfonylamino, C₃₋₇ cycloalkyl, R³C(=O)N(R⁴)- or NH₂(HN=)C-;

5 A is a benzene ring optionally substituted with up to 3 substituents or pyridine ring optionally substituted with up to 3 substituents, wherein said substituents selected from halo, C₁₋₄ alkyl, halo-substituted C₁₋₄ alkyl, hydroxy, C₁₋₄ alkoxy, halo-substituted C₁₋₄ alkoxy, C₁₋₄ alkylthio, nitro, amino, mono- or di-(C₁₋₄ alkyl)amino, cyano, HO-C₁₋₄ alkyl, C₁₋₄ alkoxy-C₁₋₄ alkyl, C₁₋₄ alkylsulfonyl, aminosulfonyl, acetyl, R³N(R⁴)C(=O)-, HO(O=)C-, C₁₋₄ alkyl-O(O=)C-, C₁₋₄ alkylsulfonylamino, C₃₋₇ cycloalkyl, R³C(=O)N(R⁴)- and NH₂(HN=)C-;

10 B is C₂₋₆ alkylene, C₃₋₇ cycloalkylene, C₂₋₆ alkenylene, or C₂₋₆ alkynylene optionally substituted with C₁₋₃ alkyl;

W is NH or O;

P is H, a protecting group, or Q³-OC(=O)-;

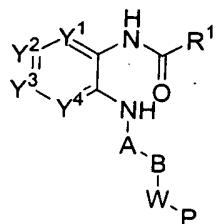
15 Q³ is a 6-10 membered monocyclic or bicyclic aromatic ring optionally substituted with halo, C₁₋₄ alkyl, C₁₋₄ alkoxy, C₁₋₄ alkylthio, nitro, cyano, C₁₋₄ alkylsulfonyl, C₁₋₄ alkylC(=O)-, HO(O=)C-, or C₁₋₄ alkyl-O(O=)C-;

L is halo, C₁₋₄ alkyl, halo-substituted C₁₋₄ alkyl, hydroxy, C₁₋₄ alkoxy, halo-substituted C₁₋₄ alkoxy, C₁₋₄ alkylthio, nitro, amino, mono- or di-(C₁₋₄ alkyl)amino, cyano, HO-C₁₋₄ alkyl, C₁₋₄ alkoxy-C₁₋₄ alkyl, C₁₋₄ alkylsulfonyl, aminosulfonyl, C₁₋₄ alkylC(=O)-, HO(O=)C-, C₁₋₄ alkyl-O(O=)C-, C₁₋₄ alkylsulfonylamino, C₃₋₇ cycloalkyl, R³C(=O)N(R⁴)-, NH₂(HN=)C-, R³N(R⁴)C(=O)- or R³N(R⁴)S(O)m-, or two adjacent L groups are optionally joined together to form an alkylene chain having 3 or 4 members in which one or two (non-adjacent) carbon atoms are optionally replaced by oxygen atoms;

20 25 m is 0, 1 or 2; and

R³ and R⁴ are independently selected from H and C₁₋₄ alkyl.

16. A compound of the following formula:



(III)

or salts thereof

wherein Y¹, Y², Y³ and Y⁴ are independently selected from N, CH or C(L) ;

R¹ is H, C₁₋₈ alkyl, C₂₋₈ alkenyl, C₂₋₈ alkynyl, C₃₋₇ cycloalkyl, C₁₋₈ alkoxy, halo-substituted

5 C₁₋₈ alkoxy, C₁₋₈ alkyl-S(O)m-, Q¹-, amino, mono- or di-(C₁₋₈ alkyl)amino, C₁₋₄alkyl-C(=O)-N(R³)- or C₁₋₄alkyl-S(O)m-N(R³)-, wherein said C₁₋₈ alkyl, C₂₋₈ alkenyl and C₂₋₈ alkynyl are optionally substituted with halo, C₁₋₃ alkyl, C₁₋₄ alkoxy-, C₁₋₄ alkyl-S(O)m-, C₃₋₇ cycloalkyl-, cyano, indanyl, 1,2,3,4-tetrahydronaphthyl, 1,2-dihydronaphthyl, Q¹-, Q¹-C(=O)-, Q¹-O-, Q¹-S(O)m-, Q¹-C₁₋₄alkyl-O-, Q¹-C₁₋₄alkyl-S(O)m-, Q¹-C₁₋₄alkyl-C(O)-N(R³)-, Q¹-C₁₋₄alkyl-10 N(R³)- or C₁₋₄alkyl-C(O)-N(R³)-;

Q¹ is a 5-12 membered monocyclic or bicyclic aromatic ring optionally containing up to 4 heteroatoms selected from O, N and S, and is optionally substituted with halo, C₁₋₄ alkyl, halo-substituted C₁₋₄ alkyl, hydroxy, C₁₋₄ alkoxy, halo-substituted C₁₋₄ alkoxy, C₁₋₄ alkylthio, nitro, amino, mono- or di-(C₁₋₄ alkyl)amino, cyano, HO-C₁₋₄ alkyl, C₁₋₄ alkoxy-C₁₋₄alkyl, C₁₋₄ alkylsulfonyl, aminosulfonyl, C₁₋₄alkylC(=O)-, HO(O=)C-, C₁₋₄alkyl-O(O=)C-, R³N(R⁴)C(=O)-, C₁₋₄ alkylsulfonylamino, C₃₋₇ cycloalkyl, R³C(=O)N(R⁴)- or NH₂(HN=)C-;

15 A is a benzene ring optionally substituted with up to 3 substituents or pyridine ring optionally substituted with up to 3 substituents, wherein said substituents selected from halo, C₁₋₄ alkyl, halo-substituted C₁₋₄ alkyl, hydroxy, C₁₋₄ alkoxy, halo-substituted C₁₋₄ alkoxy, C₁₋₄alkylthio, nitro, amino, mono- or di-(C₁₋₄ alkyl)amino, cyano, HO-C₁₋₄ alkyl, C₁₋₄ alkoxy-C₁₋₄alkyl, C₁₋₄ alkylsulfonyl, aminosulfonyl, acetyl, R³N(R⁴)C(=O)-, HO(O=)C-, C₁₋₄alkyl-O(O=)C-, C₁₋₄ alkylsulfonylamino, C₃₋₇ cycloalkyl, R³C(=O)N(R⁴)- and NH₂(HN=)C-;

20 B is C₂₋₆ alkylene, C₃₋₇ cycloalkylene, C₂₋₆ alkenylene, or C₂₋₆ alkynylene optionally substituted with C₁₋₃ alkyl;

25 W is NH or O;

P is H, a protecting group, or Z-S(O)₂-N(R²)-C(=O)-;

Z is a 5-12 membered monocyclic or bicyclic aromatic ring optionally containing up to 3 heteroatoms selected from O, N and S, wherein said 5-12 membered monocyclic or bicyclic aromatic ring is optionally substituted with halo, C₁₋₄ alkyl, halo-substituted C₁₋₄ alkyl, C₁₋₄ alkenyl, C₁₋₄ alkynyl, hydroxy, C₁₋₄ alkoxy, halo-substituted C₁₋₄ alkoxy, C₁₋₄ alkylthio, nitro, amino, mono- or di-(C₁₋₄ alkyl)amino, cyano, HO-C₁₋₄ alkyl, C₁₋₄ alkoxy-C₁₋₄alkyl, C₁₋₄

alkylsulfonyl, aminosulfonyl, $C_{1-4}alkylC(=O)-$, $R^3C(=O)N(R^4)-$, $HO(O=)C-$, $C_{1-4}alkyl-O(O=)C-$, C_{1-4} alkylsulfonylamino, C_{3-7} cycloalkyl, $NH_2(HN=)C-$, $Q^2-S(O)m-$, Q^2-O- , $Q^2-N(R^3)-$ or Q^2- ;

5 L is halo, C_{1-4} alkyl, halo-substituted C_{1-4} alkyl, hydroxy, C_{1-4} alkoxy, halo-substituted C_{1-4} alkoxy, C_{1-4} alkylthio, nitro, amino, mono- or di- $(C_{1-4}$ alkyl)amino, cyano, $HO-C_{1-4}$ alkyl, C_{1-4} alkoxy- C_{1-4} alkyl, C_{1-4} alkylsulfonyl, aminosulfonyl, $C_{1-4}alkylC(=O)-$, $HO(O=)C-$, $C_{1-4}alkyl-O(O=)C-$, C_{1-4} alkylsulfonylamino, C_{3-7} cycloalkyl, $R^3C(=O)N(R^4)-$, $NH_2(HN=)C-$, $R^3N(R^4)C(=O)-$ or $R^3N(R^4)S(O)m-$, or two adjacent L groups are optionally joined together to form an alkylene chain having 3 or 4 members in which one or two (non-adjacent) carbon atoms are optionally replaced by oxygen atoms;

10 m is 0, 1 or 2; and

R^2 , R^3 , and R^4 are independently selected from H and C_{1-4} alkyl.